

Title (en)  
NUCLEAR FUEL ASSEMBLY BOTTOM NOZZLE

Title (de)  
FUSSTÜCK FÜR KERNBRENNSTABBÜNDEL

Title (fr)  
EMBOUT INFÉRIEUR D'ASSEMBLAGE DE COMBUSTIBLE NUCLÉAIRE

Publication  
**EP 2297743 A2 20110323 (FR)**

Application  
**EP 09772715 A 20090610**

Priority  
• FR 2009051092 W 20090610  
• FR 0853881 A 20080611

Abstract (en)  
[origin: WO2010001033A2] This bottom nozzle is of the type comprising a perforated plate to allow water to pass through it, the nozzle having lateral faces (24) and at least one anti-debris element (22) positioned on a lateral face (24) to block out debris likely to infiltrate between the bottom nozzle and another adjacent bottom nozzle. According to one aspect of the invention, in the free state, the or each anti-debris element (22) permanently projects from the lateral face (24) on which it is positioned, the or each anti-debris element (22) being elastically deformable so that it can contract towards the lateral face (24) in the event of a force being exerted on the anti-debris element (22) towards the lateral face (24).

IPC 8 full level  
**G21C 3/32** (2006.01); **G21C 3/322** (2006.01); **G21C 3/33** (2006.01)

CPC (source: EP US)  
**G21C 3/3206** (2013.01 - EP US); **G21C 3/322** (2013.01 - EP US); **G21C 3/3305** (2013.01 - EP US); **Y02E 30/30** (2013.01 - EP US)

Citation (search report)  
See references of WO 2010001033A2

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)  
AL BA RS

DOCDB simple family (publication)  
**WO 2010001033 A2 20100107; WO 2010001033 A3 20100225**; CN 102099868 A 20110615; CN 102099868 B 20131030; EP 2297743 A2 20110323; EP 2297743 B1 20140903; ES 2516015 T3 20141030; FR 2932600 A1 20091218; FR 2932600 B1 20100604; JP 2011523074 A 20110804; JP 5336584 B2 20131106; KR 20110019370 A 20110225; TW 201011779 A 20100316; US 2011158373 A1 20110630; US 8712004 B2 20140429; ZA 201008932 B 20120725

DOCDB simple family (application)  
**FR 2009051092 W 20090610**; CN 200980128464 A 20090610; EP 09772715 A 20090610; ES 09772715 T 20090610; FR 0853881 A 20080611; JP 2011513032 A 20090610; KR 20107027986 A 20090610; TW 98119410 A 20090610; US 99781109 A 20090610; ZA 201008932 A 20101210